

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

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|------------------------|--------------------------|
| Application Number     | Unknown <b>10/567945</b> |
| Filing Date            | Unknown                  |
| First Named Inventor   | DIAKOUMAKOS, C.          |
| Art Unit               | Unknown                  |
| Examiner Name          | Unknown                  |
| Attorney Docket Number | HAM 830015               |

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**U. S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                    |                       | US- 5,801,218                            | 9-1-1998                       | 3M   |   |
|                    |                       | US- 6,495,637                            | 12-17-2002                     | 3L & T, Inc.                                       |   |
|                    |                       | US- 4,785,615                            | 11-22-1988                     | Leigh-Monstevens, Keith                            |   |
|                    |                       | US- 6,120,905                            | 9-19-2000                      | Eurotech, Ltd.                                     |   |
|                    |                       | US- 6,407,198                            | 6-18-2002                      | Chemonol, Ltd.                                     |   |
|                    |                       | US- 5,340,889                            | 8-23-1994                      | Texaco Chemical Co.                                |   |
|                    |                       | US- 4,699,974                            | 10-13-1987                     | General Electric Co.                               |   |
|                    |                       | US- 3,072,613                            | 1-8-1963                       | Union Carbide Corp.                                |   |
|                    |                       | US- 4,758,615                            | 7-19-1988                      | Hoechst AG   |   |
|                    |                       | US- 3,756,984                            | 9-4-1973                       | Shell Oil Co.                                      |   |
|                    |                       | US- 4,066,625                            | 1-3-1978                       | Amicon Corp.                                       |   |
|                    |                       | US- 5,439,977                            | 8-8-1995                       | Ajinomoto Co. Inc.                                 |   |
|                    |                       | US- 5,717,011                            | 2-10-1998                      | 3M   |   |
|                    |                       | US- 5,733,954                            | 3-31-1998                      | 3M   |   |
|                    |                       | US- 5,789,498                            | 8-4-1998                       | Kansai Paint Co. Ltd.                              |   |
|                    |                       | US- 5,798,399                            | 8-25-1998                      | 3M   |   |
|                    |                       | US- 5,439,977                            | 8-8-1995                       | Ajinomoto Co. Inc.                                 |   |
|                    |                       | US- 5,464,910                            | 11-7-1995                      | Shikoku Chemicals Corp.                            |   |
|                    |                       | US- 5,430,112                            | 7-4-1995                       | Ajinomoto Co. Inc.                                 |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
|                    |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                                |  |   |                |
|                    |                       | SU-1,754,748  | 8-15-1992                      | Figovsky, Oleg et al.                              |   |                |
|                    |                       | EP-1,020,457 (=US6407198)   | 7-19-2000                      | Figovsky, Oleg et al.                              |   |                |
|                    |                       | EP-1,070,733  | 1-24-2001                      | Figovsky, Oleg et al.                              |   |                |
|                    |                       |   |                                |  |   |                |
|                    |                       |   |                                |  |   |                |
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Filing Date Unknown  
First Named Inventor DIAKOUMAKOS, C.  
Art Unit Unknown  
Examiner Name Unknown  
Attorney Docket Number HAM 830015

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|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       |                          | US- 5,548,058                            | 8-20-1996                      | W R Grace & Co.                                    |   |
|                       |                          | US- 5,543,486                            | 8-6-1996                       | Ajinomoto Co. Inc.                                 |   |
|                       |                          | US- 5,407,978                            | 4-18-1995                      | 3M   |   |
|                       |                          | US- 4,268,656                            | 5-19-1981                      | National Start & Chem. Corp.                       |   |
|                       |                          | US- 4,360,649                            | 11-23-1982                     | Sumitomo Chem. Co. Ltd.                            |   |
|                       |                          | US- 4,542,202                            | 9-17-1985                      | Ajinomoto Co. Inc.                                 |   |
|                       |                          | US- 4,546,155                            | 10-8-1985                      | Ajinomoto Co. Inc.                                 |   |
|                       |                          | US- 5,134,239                            | 7-28-1992                      | The Dow Chemical Company                           |   |
|                       |                          | US- 6,197,849                            | 3-6-2001                       | Vantico Inc.                                       |   |
|                       |                          | US- 5,175,231                            | 12-29-1992                     | Fiber-Cote Corp.                                   |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
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| Examiner Name          | Unknown                  |
| Attorney Docket Number | HAM 830015               |

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## NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.              | T <sup>2</sup> |
|--------------------|-----------------------|--|----------------|
|                    |                       | FIGOVSKY et al: "Nonisocyanate polyurethanes for adhesives and coatings" Conference Proceedings article, 21 October 2001 (2001-10-21), pages 257-264   |                |
|                    |                       | CHEN T K et al: "Synthesis and characterization of novel segmented polyurethane/clay nanocomposite via poly(epsilon-caprolactone)/clay" Journal of Polymer Science, Polymer Chemistry Edition, John Wiley and Sons, New York, US, vol. 37, no. 13, 1 July 1999, p. 2225-2233 |                |
|                    |                       | ZILG C et al: "Polyurethane nanocomposites containing laminated anisotropic nanoparticles derived from organophilic layered silicates" Advanced Materials, VCH Verlagsgesellschaft, Weinheim, DE, vol. 11, no. 1, 7 January 1999, p. 49-52                                   |                |
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